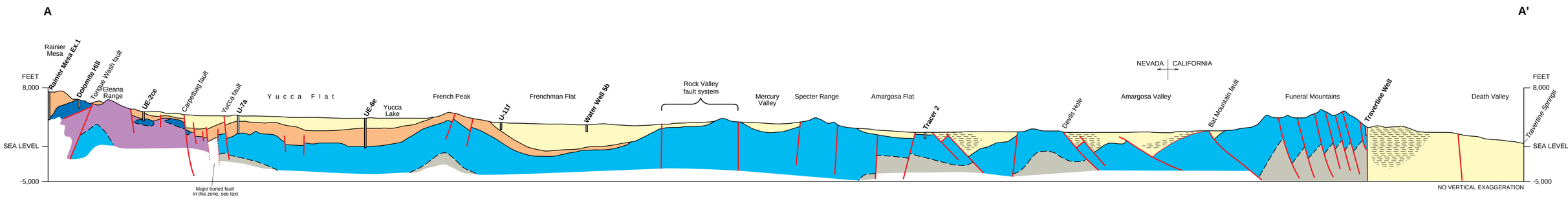
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
U.S. DEPARTMENT OF ENERGY

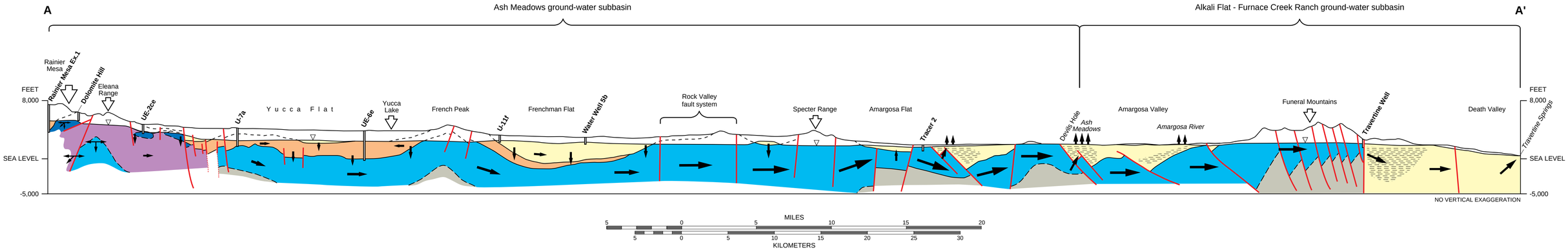
WATER-RESOURCES INVESTIGATIONS REPORT 96-4109
Regional ground-water flow at and near the Nevada Test Site (sections)—PLATE 2 OF 4
Laczniak and others, 1996, Summary of hydrogeologic controls on ground-water flow at the Nevada Test Site, Nye County, Nevada

116°22'30"

A. Geologic Section



B. Hydrogeologic Section



EXPLANATION

Geologic / hydrogeologic units—Units are shown on geologic section and hydrogeologic section and are defined in terms of both their geologic and hydrologic characteristics. Description preceding slash designates geologic unit; description following slash designates regional (plate 1) and subregional (plate 3) hydrogeologic units. If only one designation is given, regional and subregional descriptions are equivalent. Hydrogeologic units are shown in color only beneath water table

Alluvium / valley-fill aquifer—Dash pattern represents area in hydrogeologic section where fine-grained deposits act as local confining unit

Tertiary volcanic rock / volcanic-rock aquifer and confining unit (regional), and welded-tuff aquifer, lava-flow aquifer, and tuff confining unit (subregional)

Dolomite and limestone (varied stratigraphic units; see text) / carbonate-rock aquifer (regional), and upper carbonate-rock aquifer (subregional)

Siliceous siltstone, chert, sandstone, and cobble conglomerate (chiefly Mississippian) / Eleana confining unit

Dolomite and limestone (Cambrian through Devonian) / carbonate-rock aquifer (regional), and lower carbonate-rock aquifer (subregional)

Quartzite and siltstone (Late Eocambrian through Cambrian) / basement confining unit (regional), and quartzite confining unit (subregional)

Contact—Dashed where uncertain or inferred. Short dashed line on hydrogeologic section shows geologic contact in unsaturated rock above water table

Fault—Dotted line delineates a zone between Carpetbag fault and Yucca fault that marks buried trace of Tippinip fault (see text and plate 3)

Water table

Recharge zone—Size of arrow is proportional to inferred amount of local recharge

General direction of ground-water flow—Size of arrow indicates relative volume of ground-water flow. Multiple arrows indicate uncertain or multiple flow directions

Well or test hole

Geology by J.C. Cole and Mark R. Hudson, 1991

SECTIONS SHOWING MAJOR CONTROLS ON REGIONAL GROUND-WATER FLOW AT AND NEAR NEVADA TEST SITE, SOUTHERN NEVADA AND SOUTHEASTERN CALIFORNIA

by

Randell J. Laczniak, James C. Cole, David A. Sawyer, and Douglas A. Trudeau